

Abstract

An implant assembly of flexible nail for fractures of long bones comprising a straight universal length flexible nail having 15 to 25% of elongation of nail and ultimate tensile strength of 600 to 800 Mega Pascal on testing , wherein flexible nail is having an identical pathfinder blunt conical tip at both ends . An optional proximal fixation device to be used in combination with flexible nails having peripherally spaced plural grooves and optional plural holes for interlocking screws wherein each groove is deep less than diameter of one of flexible nails. An end cap with plural holes to be used in combination with proximal fixation device to anchor cut hooked ends of flexible nails. A tool plier – knurler cum cutter temporarily applied when flexible nails are alone in use.